

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



10/527587



(43) International Publication Date  
1 April 2004 (01.04.2004)

PCT

(10) International Publication Number  
WO 2004/027029 A2

(51) International Patent Classification<sup>7</sup>: C12N  
(21) International Application Number:  
PCT/US2003/029251

(74) Agent: HEMMENDINGER, Lisa, M.; Banner & Wit-  
coff, Ltd., 1001 G. Street, N.W., Eleventh Floor, Washing-  
ton, DC 20001-4597 (US).

(22) International Filing Date:  
17 September 2003 (17.09.2003)

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,  
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,  
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,  
MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT,  
RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR,  
TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English  
(26) Publication Language: English

(30) Priority Data:  
60/411,790 19 September 2002 (19.09.2002) US

(84) Designated States (*regional*): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,  
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,  
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*):  
XIMEREX, INC. [US/US]; 2614 North 161 Avenue,  
Omaha, NE 68116 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): BESCHORNER,  
William, E. [US/US]; 2614 N. 161 Avenue, Omaha, NE  
68116-2461 (US). SOSA, Carlos, E. [US/US]; 3716  
Hawthorne Avenue, Omaha, NE 68131 (US). THOMP-  
SON, Scott, C. [US/US]; 622 S. 36th Street, Apartement  
#2, Omaha, NE 68105 (US).

Published:

— without international search report and to be republished  
upon receipt of that report

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

(54) Title: GROWTH OF FOREIGN CELLS IN FETAL ANIMALS FACILITATED BY CONDITIONAL AND SELECTIVE DE-  
STRUCTION OF NATIVE HOST CELLS

(57) Abstract: Foreign cells can be grown in fetal non-mammalian hosts for the production of transplant organs and tissues, the  
development of new therapeutic agents, and the production of biological factors and drugs. Tissue-specific injury to fetal host target  
cells is carried without substantial injury to the maternal host or foreign cells, providing an environment in which the injured tissue  
can be regenerated with the foreign cells.

WO 2004/027029 A2